

JUMBO SAFE - Roof Railing



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1. Conditions

JUMBO Stillads A/S does not assume or undertake any responsibility for the content of this booklet or for the application of the booklet's content in any way not described in this booklet. JUMBO Stillads A/S cannot be held responsible for errors in the assembly instructions or for direct or indirect losses caused by delivery, presentation or the use of the contents of this booklet.

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JUMBO Stillads A / S disclaims any liability regarding compensation to injured parties who have inadvertently breached the safety provisions in these installation instructions.

2. Guarantee

JUMBO Stillads A/S does not accept liability for any wear or fractures and tear on the roof components of the roof railing caused by violation or wrong use. The guarantee does not apply for normal wear on the parts. The service life of the roof railing is estimated at min. 10 years (cf. warranty).

If parts other than those recommended by JUMBO Stillads A / S are fitted, the guarantee as well as any responsibility for any arisen consequences is renounced by JUMBO Stillads A/S

3. Application and function

The roof railing is intended to provide safety when working on flat roofs (roof slope up to 10°). The roof railing is weatherproof and can be used both indoors and outdoors. In general, aluminum should avoid contact with untreated iron constructions and iron particles, as these are able to penetrate the aluminium.

JUMBO SAFE Roof railings can easily be extended as needed. Each part is developed according to decades of know-how and experience, which makes the installation simple and the ralling safe to work with.

The posts must be secured with a the corresponding safety clips, that prevents accidental separation. All posts must be stabilized with either sandbags or concrete blocks.







4. Component overview

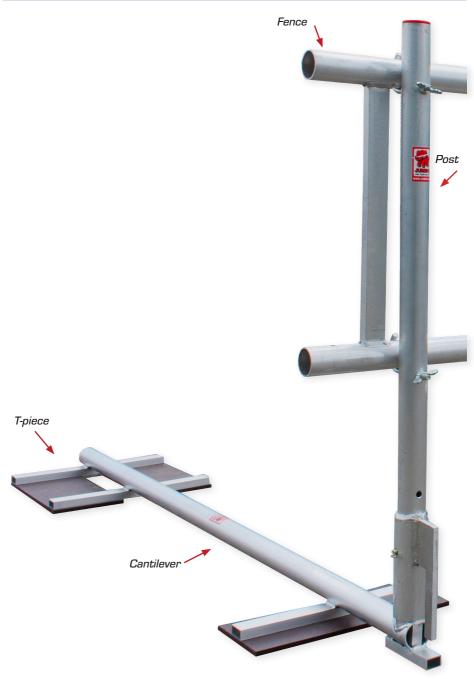


Fig.	Vare nr.	Vare	1	
1	38JS103	Cantilever		
2	38JS101	Fence		
3	1600100	Safety clips		
4	1600200	Safety clips		
5	38JS106	Post	2	
6	38JS104	Corners		
7	1420100	Connection piece		
8	38JS109	Toe board corners		
9	38JS102	Toe board	3	4
10	43TS003	Assembly Fitting		
11	38JS107	Sandbag		•
12	38JS25	Concrete block		0 0
(9	10
			ast	

5. General rules and instructions in use

5.1 Assembly and disassembly must be carried out in accordance with the assembly instructions or in agreement with the manufacturer.



- **5.2** Before assembly, all components should be checked. Only original, undamaged JUMBO components should be used
- **5.3** The post must always be locked with the corresponding safety clips before fitting the fence

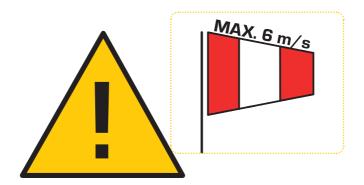


5.4 When expanding an extra corner, connection piece are fitted and secured with clips.





 $\bf 5.5$ Do not work with the installation of JUMBO SAFE if the wind is more than 6 m / sec



6. Installation and Assembly

6.1 Assembly

6.1.1 Placement

The Posts are laid out on the roof with a distance of max. 4 meters. Safety clips are removed and mounted in the lower hole. This is done by turning the pawl.



6.1.2 Fence

Fences are mounted between posts on the inside of the posts towards the roof. The fence is secured by fastening the hooks around the railing - wait to tighten them completely.



6.1.3 Extend fence

To extend JUMBO SAFE Roof Railing push the next fence over the studs of the previous fence and secure the connection with safety clips.



6.1.4 Ballast

Place ballast on the cantilever T-part:

- Use original undamaged JUMBO sand bags filled with min. 40 kg sand (weigh the sand bags before use) place them centered on the T-part.
- Alternatively; use original undamaged JUMBO SAFE concrete ballasts. 2 pcs. of 25 kg each are placed centered.



6.1.5 Corners

When turning corners, use a special 90-degree corner module that locks with safety clips in the joint. First mount the connection piece on the fence module, then attach corners to these and then mount the next fence module. Remember to secure all joints with safety clips!







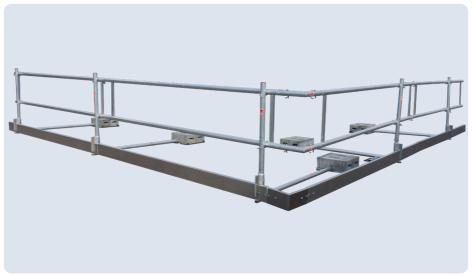
6.1.6 Toe board

Original JUMBO SAFE toe boards are now mounted by lifting the posts and pushing the toe boards into place. Toe boards and corners are assembled with assembly brackets.









6.1.7 Tighten

Now fasten the hooks on all the posts, so the fences are locked. Check to make sure that all hooks, clips and bolts / nuts are properly tightened.







End the mounting of the JUMBO SAFE Roof Railing with a control. Make sure the the handrailing does not bend more than 30 mm with a lateral point load of 0,3 kN. Furthermore the railing must be able to withstand a point load of 1,25 kN without moving or deforming.

6.2 Work under the posts

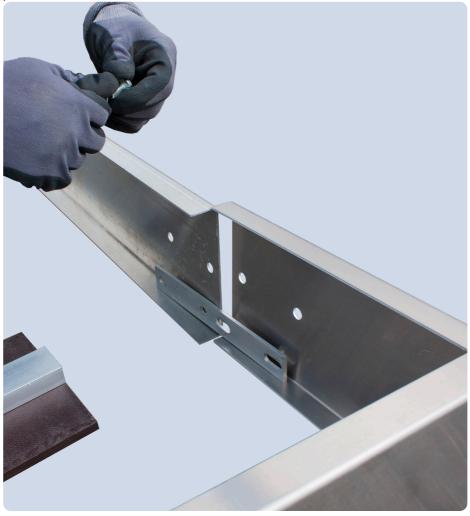
JUMBO SAFE cantilever can be moved without removing the fence, by loosening the locking brackets on the posts and removing the ballast. Then move the cantilever to the desired position. The locking brackets must be tightened and the ballast placed before commissioning (remember the maximum distance between the footplane / posts is 4 meters.)

6.3 Disassembly

JUMBO SAFE roof rails are disassembled in reverse order.

No parts may be dropped at any time.

During transport, violent shocks should be avoided, which can cause deformations of the pipe profile.



7. Maintenance

JUMBO SAFE usually requires no maintenance, but cleaning should be done gently rather than violent blows with a hammer and the like.

JUMBO SAFE must NOT be lubribated with oil!

In geberal a dry PTFE spray is recommended for lubrication.



8. Warnings & Abuse

The roof railing may only be installed and assembled by persons over the age of 18, and only when the user has been thoroughly instructed in use.





The roof railing may not be used for purposes other than roofing work.

At a point load of 0.3 kN, the handrail must not deflect more than 30 mm. Furthermore, fences must be able to withstand a point load of 1.25 kN without moving 20 mm and without deforming.

May only be erected on stable and solid ground.

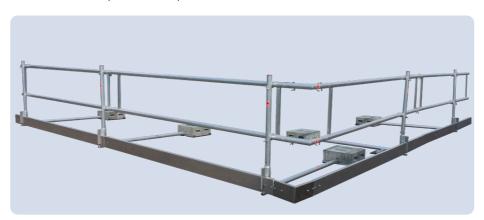
Minimum distance to live electrical cables: 3 m.

Avoid installing billboards and the like, which can increase the wind load.

The roof railing must never be used to fasten or support loose building parts. Check the tag regularly for any defects.

The roof railing may only be installed with other equipment approved by JUMBO Stillads A / S. Design changes are at your own risk.

Protect articulated joints from impact and dirt.





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